Belden



Product: 21453

TC- RW90 1000V, 2+G C #6 Str BC, XLPE Ins, Blk PVC Jkt, 90C Dry/Wet CSA HL SUN RES DIR BUR

Product Description

CSA Tray TC- RW90 1000V, 2+G Conductor 6 AWG (7x14) Bare Copper, XLPE Insulation, Black PVC Outer Jacket, 90C Dry/Wet CSA HL SUN RES DIR BUR

Technical Specifications

Product Overview

Suitable Applications:	CEC Power and Control Applications

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	2	6 AWG	7x14	BC - Bare Copper
Ground Wire	1	8 AWG	7x16	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLP, XLPO, XLPE (Thermoset)	0.061 in (1.5 mm)	0.300 in (7.62 mm)	Black, Red
Ground Wire	XLP, XLPO, XLPE (Thermoset)		0.300 in (7.62 mm)	Green

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.073 in (1.9 mm)	0.754 in (19.2 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	0.41 Ohm/1000ft (1.3 Ohm/km)	75 Amps per Conductor at 30ºC
Ground Wire	0.67 Ohm/1000ft (2.2 Ohm/km)	88 Amps per Conductor at 30ºC

Voltage

UL Voltage Rating	Voltage Rating
1000 V	1000 V (CSA TC)

Mechanical Characteristics

Temperature

UL Temperature	Operating	Installation
90°C Dry, 90°C Wet	Wet/Dry: -25°C to 90°C	-25°C To +90

Bend Radius

Stationary Min.	Installation Min.
3.016 in (76.61 mm)	3.77 in (95.8 mm)

Max. Pull Tension:	915 lbs (415 kg)
Bulk Cable Weight:	383 lbs/1000ft (570 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor/OutdoorDirect Burial, Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial
Flammability / Reaction to Fire:	UL1685 UL Loading, FT4
NEC / UL Compliance:	Article 336, TC
AWM Compliance:	C22.2 #230 Type TC
CEC / C(UL) Compliance:	1000V Type RW90 TC, CSA TC
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.303 Revision Date: 10-07-2026

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